

HP Version Control 6.1.0 Installation Guide

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1 Product overview

Today's distributed enterprise networks are some of the most complex ever constructed. As companies deploy more business-critical applications, these networks continue to rapidly expand, becoming more sophisticated and requiring servers that support the latest technological innovations. In this fast-changing environment, any loss of availability translates into a loss of time and money, and manageability has become the leading success criterion for today's highly competitive businesses.

HP systems provide maximum uptime with minimal maintenance. HP has developed advanced server management technologies, such as the *HP Version Control Repository Manager* (VCRM), *HP Version Control Agent* (VCA), and *HP Systems Insight Manager* (HP SIM). The tight integration of these advanced technologies reduces server management efforts, enabling administrators to work issues, resolve problems, and install server software from remote locations by means of a standard web browser.

VCRM

The VCRM is a repository that stores the software and firmware components used to support ProLiant servers on Windows and Linux platforms. By default, the VCRM is installed on the HP SIM central management server, however you can specify a custom directory or server location.

You can use the VCRM as a central point to define software baselines and to automate the installation and change management of HP software and firmware updates to production systems.

The VCRM catalogs system software and firmware that is stored where the VCRM is installed. The software and firmware can be manually downloaded from <http://www.hp.com/servers/swdrivers> directly to the file system, or you can use the VCRM to automatically download software or manually upload software from any web client. Software is organized into groups by function and operating system. You can view detailed information about each piece of software by clicking the software component name. The VCRM also enables you to create customized groupings of software, which can then serve as a system software baseline for the entire managed environment or a subset of your environment.



NOTE: If you use the automatic download feature for software updates, then you must ensure that either the VCA is configured and directed to the VCRM or the operating systems are selected for PSP download through VCRM Installer GUI during installation/upgrade, web page GUI during configuration, or through the CLI option. However, if you manually upload software updates, then you must also manually update the VCRM. In this case, the VCA need not point to the VCRM.

VCA

The VCA is an Insight Management Agent that is installed on a server to enable you to view the HP software and firmware that is installed on that server. The VCA can be configured to point to a repository being managed by the VCRM, enabling easy version comparison and software update from the repository to the server on which the VCA is installed.

The VCA provides version control and system update capabilities for a single HP system. The VCA determines server software status by comparing each component installed on the local system with the set of individual components or a specified ProLiant or Integrity Support Pack listed in the VCRM. You can also update individual components or multiple components by checking the checkbox. The entire ProLiant or Integrity Support Packs can be installed by clicking the **install** icon located next to the system software status icon.

The installation of single or multiple software components on an individual system can be initiated from the VCA, which retrieves the software from the VCRM. To install multiple components or custom baselines to one or more systems, you can use the installation options in HP SIM to install the software from the VCRM.



NOTE: You can access VCA and VCRM from the System Management Homepage (SMH).

HP SIM integration

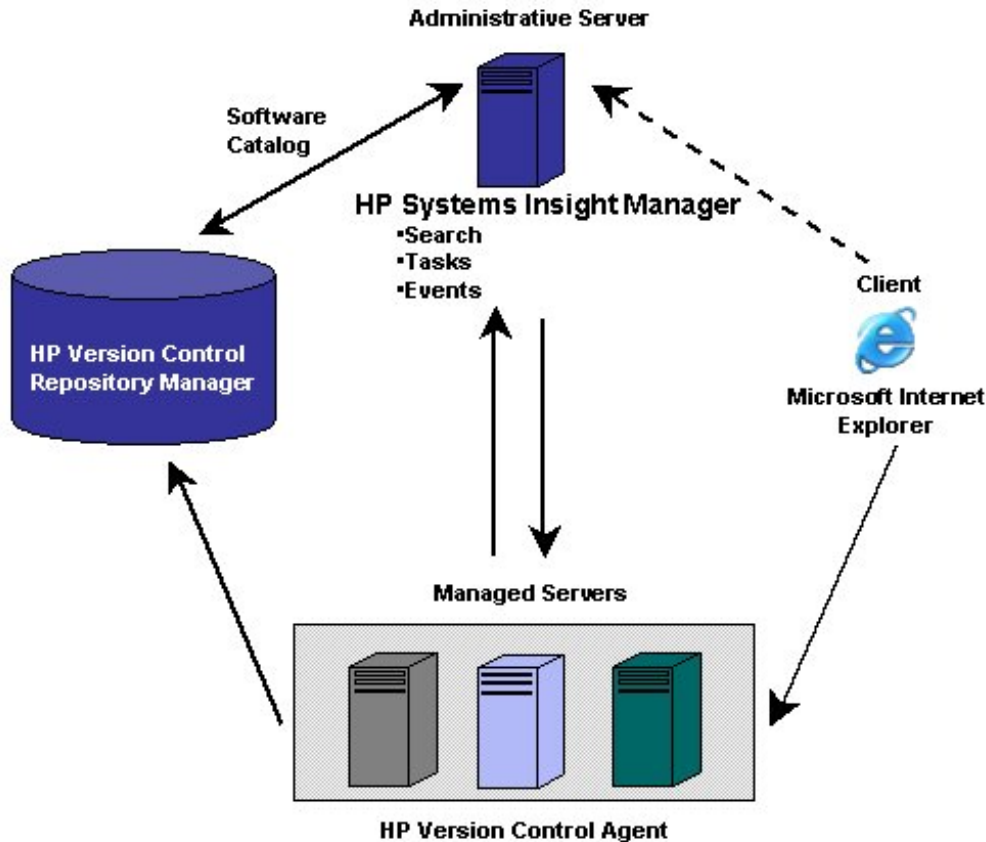
For software versioning and updating, HP SIM relies on the VCRM and the VCA. By using these applications, HP SIM provides a single view of the software status for all managed ProLiant or Integrity servers, plus the capability to update software and firmware on those servers through its powerful query and task features.

Updates can be scheduled and applied to specific sets of servers based on predetermined criteria, including applying updates only to those systems that require an update.

To take full advantage of the software update capabilities of HP SIM, ensure that:

- Every managed target server on the network has the VCA installed and is configured to use a repository managed by the VCRM
- Every repository that is to be used has the VCRM installed
- You use the automatic update feature of the VCRM to update the configured repository with the latest software from HP automatically

The following diagram illustrates the interaction of HP SIM with the VCRM and the VCA to perform software updates.



Basic functions of VCRM and VCA

The VCRM and the VCA are integrated with the System Management Homepage (SMH), which is the standard single-system management tool in the ProLiant Essentials Foundation Pack. HP SIM, also part of the ProLiant Essentials Foundation Pack, uses the VCRM and the VCA to facilitate software versioning, updates, and related tasks.

VCRM

The VCRM is designed to manage a repository containing ProLiant and Integrity Support Packs as well as individual server software and firmware components.

The repository can be kept current by using the automatic update feature of the VCRM or by copying software directly to the repository from the HP SmartStart CD, HP SmartSetup CD, another repository, or the HP website.

VCA

The VCA is available for Windows and Linux operating systems. The VCA is an integrated part of the SMH that is designed to display the available software inventory of the server on which it is installed. The VCA also enables the installation, comparison, and update of server software from a repository that is managed by the VCRM.

Users with administrator or operator privileges can access the VCA to maintain the software inventory of the server manually. Users with user privileges can access the VCA but cannot perform installation and configuration activities. The installation of components and configuration activities are saved to a log file at the server. The VCA logs activities, such as software installations, which are saved in this log. However, installations performed outside the VCA do not appear in this log.

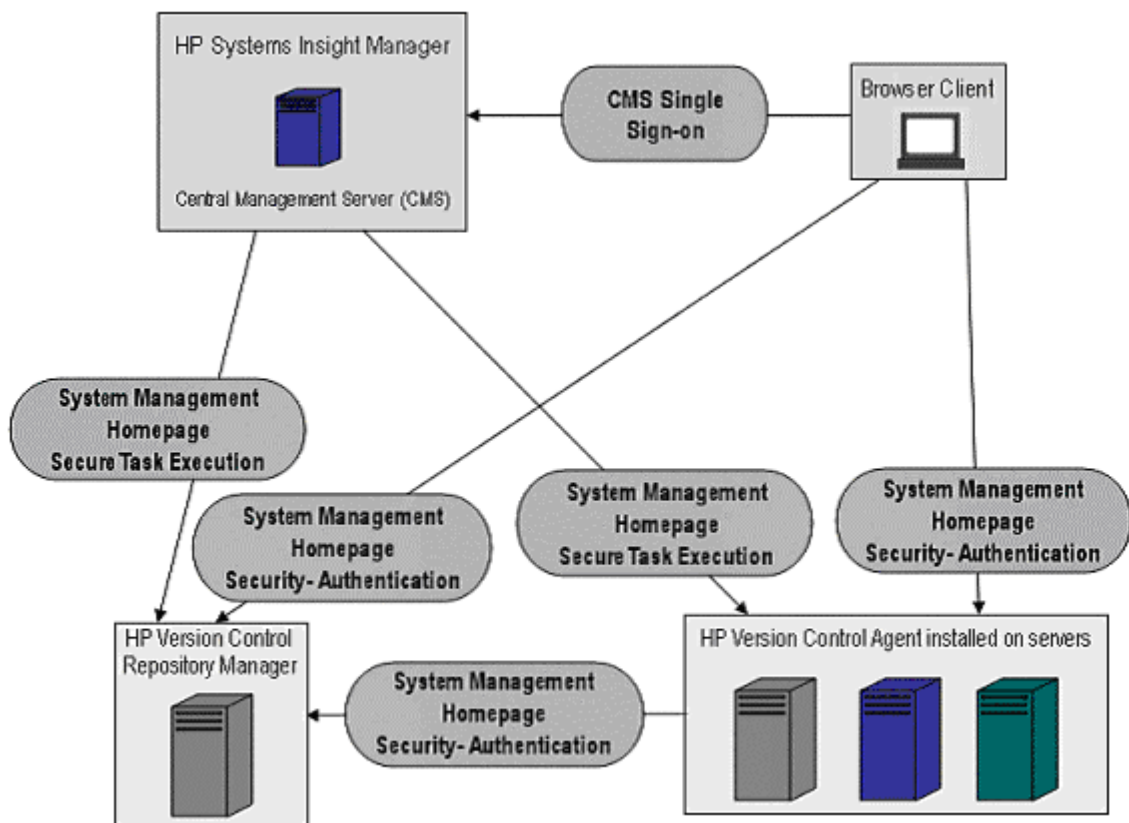
HP SIM

HP SIM is a Web-based server management application that leverages the power of the Internet to provide Web-based systems management. When integrated with the VCA and the VCRM, HP SIM provides a proactive, easy-to-use, automated, and cost-effective solution for managing distributed systems and updating software on the managed systems remotely.

HP SIM transforms management of standards-based, distributed computing environments. By enabling browser access to its components, HP SIM provides efficient management of HP and third-party devices and groups of systems using Simple Network Management Protocol (SNMP), Desktop Management Interface (DMI), and Hypertext Transfer Protocol (HTTP), automatically consolidating and integrating the management data and displaying the information on demand. With HP SIM, you can monitor and manage groups of servers, clients, clusters, and networking products anywhere, at any time, from a standard web browser.

Security considerations

Three distinct types of secure connections are employed in the *version control* architecture. The following diagram illustrates the connections.



All connections and data are transferred using Secure Sockets Layer (SSL) communications over HTTP. Interactive users connect using a web browser (client) application. The specific security depends on which web application they are browsing.

HP SIM uses operating systems authentication, based on the server where it is installed. Single sign-on enables a user that browses to the HP SIM system to follow links from that system to other managed systems without being prompted to login again.

When the same user browses directly to a managed server, they must authenticate through the SMH, using an account and password that is valid on that system.

HP SIM communicates with web applications, such as the VCA and the VCRM, using Secure Task Execution, which is enabled by configuring the SMH to trust that central management server (CMS). Refer to the *System Management Homepage Installation Guide* for information regarding configuring the SMH.

Finally, when the VCA communicates with a VCRM, it acts as a client application, and requires the same kind of authentication information, such as an account and password, that an interactive user needs to login to the SMH on which the VCRM is installed. The SMH requires a valid operating system account and password. Refer to the VCA online help for more information regarding configuring these settings for the VCA.

For more information regarding the SMH, refer to the *System Management Homepage Installation Guide*. For more information regarding HP SIM, refer to the *HP SIM User Guide*.

2 Migrating Version Control to the System Management Homepage

Migrating Version Control with ProLiant Support Pack 7.1 and earlier

Legacy VCA continues to report accurately after upgrading Management HTTP Server to SMH since SMH detects installed Web Agents and migrates the administrator credentials.

Legacy VCA uses legacy SMH account names including **administrator**, **operator**, and **user**.

Migrating Version Control with ProLiant Support Pack 7.2 and later



IMPORTANT: This section is specific to the VCA (starting with the ProLiant Support Pack 7.2 and later).

The VCA and VCRM login to the management web server by way of the SMH. The SMH is security software that must be configured to allow the VCA to connect to the VCRM using operating system authentication.

Previous versions of the SMH, known as Management HTTP Server, provided three levels of account access, including **administrator**, **operator** and **user**. Access was granted using the Management HTTP Server's built-in, local accounts, **administrator**, **operator** and **user**, with a password configured at the Management HTTP Server.

When the SMH is installed, the login changes to use operating system accounts that are authenticated at the system where the SMH is installed. The concept of an administrator or operator level still exists and is accomplished by associating, in the SMH security settings, an operating system user group with that privilege level, and adding the user accounts to the groups that provide the level or privilege desired.

Note: There are no specific operating privilege requirements, other than login, that must be granted to the operating system groups or user accounts. Privilege is granted solely by configuring the group in the SMH settings.

Note: After the SMH is installed, the Management HTTP Server's built-in account and password pairs are no longer valid for interactive login on that system, though existing Management HTTP Server credentials can be used by a VCA to connect to a VCRM. For example, this scenario can occur when an existing VCRM system is upgraded from Management HTTP Server to SMH.

Note: If you are using HP SIM or HP Insight Manager 7, the **Software Status** column on the **Home** page displays **Unknown** for any VCA that cannot connect.

Operating system accounts that are in user groups that have been assigned the SMH administrator or operator-level privileges, have full access to all VCA or VCRM features. Operating system accounts that are in user groups that have been assigned anonymous or user access have read-only access to page data.

Migrating the VCA and the VCRM from Management HTTP Server to SMH to use operating system authentication

Although Version Control will continue to report accurately after upgrading Management HTTP Server to SMH, HP recommends that you configure SMH to use operating system authentication for VCA access, and re-configure the systems running VCA to point to the new account for added security.

Use the following steps as a guideline to reconfigure version control to use operating system authentication:

1. Identify the versions of the VCAs that are installed that are being reconfigured to use operating system authentication.
2. Determine whether you intend to update all of the systems with VCAs installed with ProLiant Support Pack 7.20 or Integrity Support Pack 3.20.
3. From the system where the VCRM is installed, create a local user account and user group specifically for version control use. If the installed VCAs are 2.0.7.10 or later, any account name can be used, for example, **vcadmin**. If earlier versions of the VCA are installed and you are not planning to upgrade

the VCA, you must use an account name that matches one of the non-administrator accounts the earlier versions of the SMH defined, for example, **operator** or **user**.

By default, the VCA is unable to login with an account named **administrator** using operating system authentication, to prevent an accidental lockout of the local administrator account.

To add operating system accounts:

1. Select **Start**→**Settings**→**Control Panel**.
2. Double-click **Users and Passwords**. The **Users and Passwords** dialog box appears.
3. From the **Users** tab, click **Add**. The **Add New User** dialog box appears.
4. In the **User name** field, enter a user name for this account.
5. In the **Full name** field, enter a full name for this account.
6. In the **Description** field, enter a brief description of this account.
7. Click **Next**. The **Add New User** dialog box appears.
8. In the **Password** field, enter a password for this account.
9. In the **Confirm Password** field, re-enter the password exactly as you entered it in the **Password** field.
10. Click **Next**. The **Add New User** dialog box appears asking you to indicate what level of access you want to grant this user.
11. Select the appropriate access level for this user:
 - **Standard User** Users can modify the computer and install programs, but cannot read files that belong to other users.
 - **Restricted User** Users can operate the computer and save documents, but cannot install programs or make potentially damaging changes to the system files and settings.
 - **Other** This option enables you to specify a custom level.
 - **Administrators** Administrators have complete and unrestricted access to the computer/domain. This level is required to connect from the VCA to the VCRM.
 - **Backup Operators** Backup Operators can override security restrictions for the sole purpose of backing up or restoring files.
 - **Guests** Guests have the same access as members of the Users group by default, except for the Guest account which is further restricted.
 - **Power Users** Power Users possess most administrative powers with some restrictions.
 - **Users** Users are prevented from making accidental or intentional system-wide changes.
12. Click **Finish**. The account is created and appears in the **Users for this computer** list.
13. Click **OK** to close the **Users and Passwords** dialog box.
4. Create a user group that includes the SMH's **Administrator** or **Operator** list, for example, **VCOperators**. Add the account that you created to that group.
5. If you used one of the *legacy* account names, and you have not upgraded to SMH yet, change the existing **operator** or **user** account's password to match the identically named operating system account.
6. If you intend to upgrade, add the created user group to the **Administrator** or **Operator** group list in the SMH **Operating System Groups** page during installation. If you have already upgraded to SMH, add the created user group to SMH through the SMH **Settings** page. For more information regarding assigning accounts in SMH, refer to the SMH online help.

The user group must be added to the **Administrator** or **Operator** lists in the SMH for the VCA to have the ability to download and install software using the VCRM on this system.

Login to the SMH using the newly created account and password to verify that it logs in successfully.

7. Change the configuration of the VCAs that are already installed. There are several ways to change the configuration, including:
 - a. HP SIM users should use **Replicate Agent Settings** to configure one VCA to the account and password previously created in step 3, and then deploy that configuration to all installed VCAs.
Note: This is the lowest impact solution, and it does not cause a reboot or restart of the affected systems.
 - b. Pre-configure a VCA component using the VCRM, and use HP SIM or HP Insight Manager 7 to create a software deployment task to deploy this component.
If you choose to deploy the VCA from the 7.20 ProLiant Support Pack, you must deploy the SMH component before the VCA can install.
Note: This method causes a reboot of the Windows systems where the VCA is upgraded, since it is being used to upgrade itself.
 - c. Use the **HP Smart Update Manager Utility** to pre-configure a VCA for Windows component. If you choose the VCA from the 7.20 ProLiant Support Pack or Integrity Support Pack 3.20, you must deploy the SMH component before the VCA can install.
8. Verify that the settings are correct and functioning by browsing to one of the systems where an updated VCA is installed, and confirming the software status is accurate. If you are an HP SIM or HP Insight Manager 7 user, run the **Software Status Polling** task to display updated status.



NOTE: You cannot use this procedure on Windows Server 2008.

To add operating system accounts on Windows Server 2008:

1. Select **Start→Settings→Control Panel**.
2. Select **User Accounts→Manage Another Account→Create a New Account**
3. In the **User Name** field, enter a user name for this account and select **Administrator**.
4. Select **Create Account**.

3 Obtaining the software

This chapter provides information regarding obtaining the VCA, VCRM, and HP SIM.

Obtaining VCA, VCRM, and HP SIM

VCA

The VCA is available from the following sources:

- **ProLiant Support Pack or Integrity Support Pack.** To download the latest version of the ProLiant Support Pack, go to <http://www.hp.com/servers/swdrivers> or to download the latest Integrity Support Pack, go to <http://www.hp.com/support/itaniumservers>. The ProLiant Support Pack is also available on the HP SmartStart CD and the HP Software Update CD. The Integrity Support Pack is available on the HP SmartSetup CD.
- **HP SmartStart CD.** For more information regarding the HP SmartStart CD, refer to the documentation included on the HP SmartStart CD or go to <http://www.hp.com/servers/manage>.
- **HP Software Update CD.** The HP Software Update CD provides software maintenance functionality. For more information regarding the HP Software Update CD, refer to the documentation included on the HP Software Update CD or go to <http://www.hp.com/servers/manage>.
- **HP SmartSetup CD.** For more information about the HP SmartSetup CD, refer to the documentation included on the HP SmartStart CD or go to <http://www.hp.com/servers/manage>.

VCRM

The VCRM is available from the following sources:

- **HP website.** Go to <http://www.hp.com/servers/swdrivers>.
- **HP Management DVD.** When web access is not available or download speeds are too slow, the VCRM can be obtained from the HP Management DVD 7.20 or later. For more information about the HP Management DVD, refer to the documentation included on the HP Management DVD or go to <http://www.hp.com/servers/manage>.
- **HP Insight Software DVD.** The VCRM can be obtained from the HP Insight Software DVD. For more information about the HP Insight Software DVD, refer to the documentation included on the HP Insight Software DVD, or go to <http://www.hp.com/servers/manage>.

HP SIM

HP SIM is available from the following sources:

- **HP website.** Go to <http://www.hp.com/servers/manage>.
- **HP Management DVD.** When Web access is not available or download speeds are too slow, HP SIM can be obtained from the HP Management DVD 7.20 or later. For more information about the HP Management DVD, refer to the documentation included on the HP Management DVD or go to <http://www.hp.com/servers/manage>.
- **HP Insight Software DVD.** HP SIM can be obtained from the HP Insight Software DVD. For more information about the HP Insight Software DVD, refer to the documentation included on the HP Insight Software DVD, or go to <http://www.hp.com/servers/manage>.

4 Installing the VCA using HP Systems Insight Manager

HP SIM is a system management software that is capable of managing a wide variety of systems, including HP systems, clusters, desktops, workstations, and portables. You can use the **Initial ProLiant Support Pack Install** or the **Configure or repair Agents** options to deploy VCA and other agents to all the Windows managed systems.

The **Initial ProLiant Support Pack Install** option allows you to install an HP ProLiant Support Pack from a Windows Central Management Server (CMS) to a Windows managed system when you do not have any HP Insight Management Agents, especially the HP Version Control Agent, installed. To use this option, you should have configured the HP Version Control Repository Manager in your network with at least one **HP ProLiant Support Pack**. Also, you must configure the VCA component using the **Configure a Component** option within the VCRM **Catalog** option prior to installing VCA using this option.

Pre-configuring VCA component in VCRM

1. Access the HP Version Control Repository Manager homepage.
<https://vcrm system name:2381/vcrepository>
2. Login to the System Management Homepage.
The **HP Version Control Repository Manager** screen appears.
3. Click **Catalog**. The **VCRM Catalog** page appears.
4. Click **Configure a Component**. The **Component Pre-configuration** page appears.
5. Select the VCA component from the list of configurable components and click **Next**. The **Version Control Agent Setup** page appears.
6. In the **Computer Name** field, enter the name of the system on which the VCRM is installed.
7. In the **Login Account** field, enter the login account information of the System Management Homepage of the VCRM system. If you have created an account specifically for Version Control, use that account name.
8. In the **Login Password** field, enter the password for the login account on the VCRM system.
9. Enable or disable Overwrite corresponding settings of an already installed VCA when this version is installed as an upgrade or re-installed. If not checked, the values saved here will apply only on the initial installation of this copy of VCA software. Enable this option if you are upgrading or reinstalling and you want to overwrite the existing VCA settings.



NOTE: This option is enabled by default. If you do not want to overwrite existing VCA settings, you must clear this option.

10. Click **Save** to save the settings. Alternatively, you can click **Cancel** to discard the settings.

For more information on configuring a component, refer the *HP Version Control Repository Manager Online Help*.

Installing VCA Using the Initial ProLiant and Integrity Support Pack Install Option

After you configure the VCA component in VCRM, you can install the VCA using the Initial ProLiant Support Pack Install option. Select **Deploy**→**Deploy Drivers, Firmware and Agents**→**Initial HP ProLiant Support Pack Install** in HP SIM.

Deploying VCA Using the Configure or Repair Agent option

You can use the **Configure or Repair Agent** option to setup managed systems and simultaneously install the VCA from Windows CMS to Windows managed systems. To use this option, select **Configure**→**Configure or Repair Agents** in HPSIM.

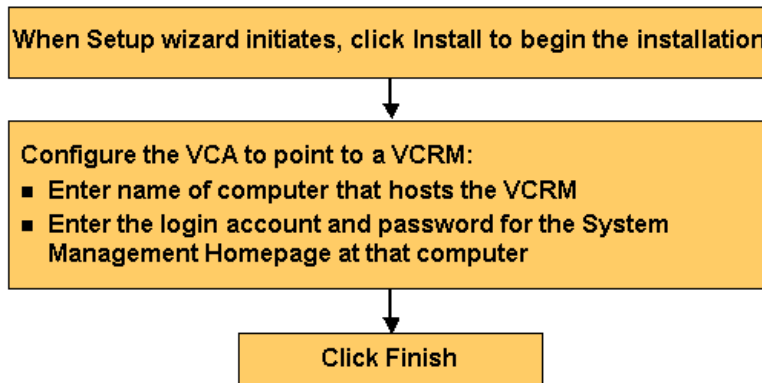


NOTE: Installing VCA using the **Configure or Repair Agents** option is supported from HPSIM 5.2. For more information on using this option, refer the *HP SIM Online Help*.

5 Installing the VCA on Windows operating systems

VCA requirements for Windows

The VCA can be used in conjunction with HP SIM and the VCRM. The options must be configured for full functionality. The installation of the VCA requires that you specify a certified login with a VCRM. When specified, VCAs can determine the versions of HP software and firmware installed on each individual system and compare the version with the latest software or firmware and baseline definitions available in the VCRM. The following diagram illustrates a logical order for the initial VCA installation process on a Windows operating system.



System requirements

To install the VCA on a Windows system, the system must meet the following minimum requirements.

Supported hardware and software

- Supported operating systems
 - Windows Server 2003 with Service Pack 2
 - Windows Server 2003 R2
 - Windows Server 2003 ES for 64-bit Extended Systems (starting with the ProLiant Support Pack 7.2 and later)
 - Windows Server 2003 64-bit Enterprise Edition
 - Windows Server 2003 for Itanium-based systems, 64-bit
 - Windows Storage Server 2003
 - Windows Unified Data Storage Server 2003 x64 Edition
 - Windows Unified Data Storage Server 2003 x64 Edition R2
 - Windows Server 2008
 - Windows Server 2008 R2
 - Windows Server 2008 R2 Foundation
 - Windows Server 2008 for Itanium-based systems
 - Windows Server 2008 x64
 - Windows Vista
 - Windows XP Professional, XP 32-bit and 64-bit edition
- Server software
 - TCP/IP installed
 - SMH installed (starting with the ProLiant Support Pack 7.2 and later)

- Hardware
 - ProLiant Server
 - Windows Integrity Servers
- Disk space
 - 11 MB on the Windows *SystemDrive*

Note: The VCA installer can require up to 12 MB of additional free space on your Windows *SystemDrive* to complete the installation.
 - 70 MB for Integrity servers
- System memory
 - 256 MB of RAM for Windows Server 2003
 - 256 MB of RAM for Windows 2003 Server ES for 64-bit Extended Systems (starting with the ProLiant Support Pack 7.2 and later)
 - 256 MB of RAM for Windows 2003 Server 64-bit Edition (starting with the ProLiant Support Pack 7.2 and later)

Client requirements

Requirements for client access to the VCA are outlined.

Hardware and software

- Operating system
 - Windows Server 2003 with Service Pack 2
 - Windows XP
 - Windows Server 2008
 - Windows Server 2008 R2
 - Windows Server 2008 R2 Foundation
 - Windows Vista
- Browser
 - Internet Explorer 8.0
 - Internet Explorer 7.0
 - Internet Explorer 6.0 with Service Pack 1 or later
 - Mozilla 1.6 or later
- System memory
 - 256 MB of RAM for Windows XP or Windows Server 2003

Installation overview

1. Verifies the presence of a previously installed version of the VCA or performs new installation on systems with no previous installation or upgrades current installation on systems with existing installation

Note: You do not need to initiate the upgrade process because the installation of the VCA does it for you.
2. Copies the necessary files to the correct location
3. Registers VCA
4. Initiates the operation of the VCA

The VCA installation executable is located in the following locations:

- <http://www.hp.com/servers/manage>
- HP SmartStart CD

- HP SmartSetup CD
- Software Update CD
- A repository managed by the VCRM that contains the latest Windows ProLiant and Integrity Support Pack.

Installing the VCA for Windows

The VCA installation wizard launches in interactive mode when the installation executable is run from the command line or launched from Windows Explorer.

After the wizard initiates, the **HP Setup** dialog box appears.

If a previous version of the VCA is installed, the VCA upgrade is initiated. The **HP Setup** dialog box appears and indicates the software is installed but not current. Click **Install** to upgrade.

If a current version of the VCA is installed, the VCA reinstall is initiated. The **HP Setup** dialog box appears and indicates the software is installed and current. Click **Install** to reinstall over the currently installed software.

If you have a newer version of the VCA installed, and you want to downgrade, uninstall the current VCA, reboot the machine, and run the new installation.

Click **Install**. If this is the initial installation, the **VCA Configuration** dialog box appears.

Configuring the VCA

The VCA Configuration wizard appears during the initial installation of the VCA, and enables you to configure the VCRM, which provides a reference point for available HP software.

Caution: Enter the account and provide the appropriate password for the VCA to download software from the VCRM. Enter at least a user-level account and provide the appropriate password for the VCA to provide software status by comparing the inventory with what is available at the VCRM. However, user-level account access does not allow the VCA to download and install software.

To configure the VCA's settings to use a VCRM to obtain software status and software downloads:

1. In the **Repository Manager Device** field, enter the name of the system that hosts the VCRM. You can enter an IP address or system name.
2. In the **Login Account** field, enter a login that has the appropriate security level for the SMH on the specified system. The type of account, account name and password depend on whether the SMH or Management HTTP Server is installed at the system specified in the previous step. This account must have **Operator** or **Administrator** level at the VCRM system, so it is recommended that you use a browser to verify the login account and password before entering it.

Note: A privileged user in VCRM can connect to VCA. This user also has the permission to download PSPs.

Note: This account is at the VCRM system, not the VCA system.

Note: To avoid any potential administrator lockouts from the SMH, the account named **Administrator** cannot be used to connect to the VCRM from the VCA. Do not use that account if the VCRM system has the SMH installed. For more information regarding migrating version control to SMH, refer to [Migrating Version Control to the System Management Homepage](#).

3. In the **Password** field, enter the password for the login account.
4. In the **Password Confirm** field, re-enter the password exactly as you entered it in the **Password** field.
5. Click **Finish**. The **HP Setup** dialog box appears and the installation begins. When it completes, the results of the installation are displayed.
6. Click **Close**. The installation is complete.

Installing the VCA for Windows silently

The VCA installation for Windows enables you to silently install the VCA.

Installing silently using the CLI

To install silently using the CLI:

From a command prompt, enter the following command:

`component name /silent`

For example, you might enter `c:\>cp00xxxx.exe /silent`.

or

`c:\>cp00xxxx.exe /s`

Note: Be sure to configure the VCA component using the HP Smart Update Manager before installing it to remote systems. If the component is not configured, the VCA displays an *unknown* status.

Alternatively, VCA can also be installed silently using the HP Smart Update Manager.

To install the VCA silently using the HP Smart Update Manager:

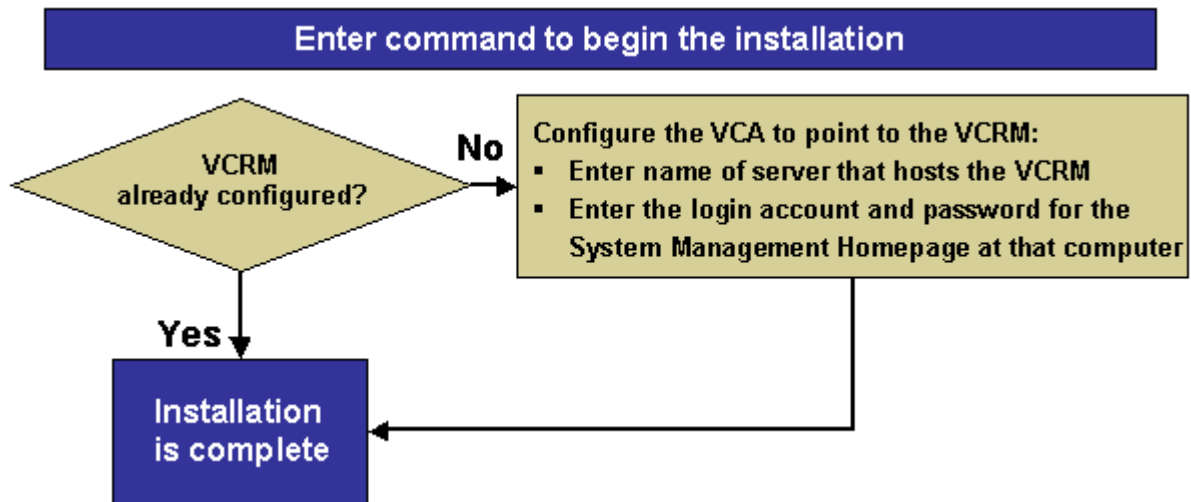
1. Execute the `cpfiles.exe` available in the HP SmartStart CD at the location: `compaq\csp\nt`
2. Extract the contents to the location on the system where you want to install the VCA.
3. From the same location, execute the following command in the command prompt:

`hpsum /s cp00xxxx.exe`

6 Installing the VCA on Linux operating systems

VCA requirements for Linux

The VCA can be used in conjunction with HP SIM and the VCRM. The options must be configured for full functionality. The following diagram illustrates a logical order to the VCA installation process on a Linux operating system.



System requirements

To install the VCA on a Linux system, the system must meet the following requirements.

Supported hardware and software

- Operating systems
 - Novell Open Enterprise Server (OES) with Service Pack 2
 - Red Hat Enterprise Linux 5 for x86, Update 4
 - Red Hat Enterprise Linux 5 for x86, Update 3
 - Red Hat Enterprise Linux 5 for AMD64 and Intel EM64T, Update 4
 - Red Hat Enterprise Linux 5 for AMD64 and Intel EM64T, Update 3
 - Red Hat Enterprise Linux 4 for x86, Update 8
 - Red Hat Enterprise Linux 4 for x86, Update 7
 - Red Hat Enterprise Linux 4 for AMD64 and Intel EM64T, Update 8
 - Red Hat Enterprise Linux 4 for AMD64 and Intel EM64T, Update 7
 - Red Hat Enterprise Linux 3 Update 3 for x86, Update 9
 - Red Hat Enterprise Linux 3 Update 3 for AMD64 and Intel EM64T (starting with the ProLiant Support Pack 7.2 and later), Update 9
 - SUSE Linux Enterprise Server 11 for x86 and AMD64/EMT64T
 - SUSE Linux Enterprise Server 10 for x86, Service Pack 2
 - SUSE Linux Enterprise Server 10 for AMD64 and Intel EM64T, Service Pack 2

- SUSE Linux Enterprise Server 9 for x86, Service Pack 4
- SUSE Linux Enterprise Server 9 with Service Pack 4 for AMD64 and Intel EM64T (starting with the ProLiant Support Pack 7.2 and later)
- Server software
 - SMH (`hpsmh RPM`) installed
 - HP Server Management Application and Agents (`hpasm RPM`) 7.00 or later required for software inventory and status features to be functional
- Hardware
 - ProLiant Server
- Disk space
 - 36 MB
- System memory
 - 256 MB of RAM
- HP Server Management Drivers and Agents
 - `hpasm RPM` 7.0 or later

Note: The SNMP services must be active with at least one community string defined to allow read access, must be configured for software inventory and status features to be functional.

Client requirements

Requirements for client access to the VCA from Linux operating systems are outlined.

Hardware and software

- Supported Operating Systems
 - Novell Open Enterprise Server (OES) with Service Pack 2
 - Red Hat Enterprise Linux 5 for x86, Update 4
 - Red Hat Enterprise Linux 5 for x86, Update 3
 - Red Hat Enterprise Linux 5 for AMD64 and Intel EM64T, Update 4
 - Red Hat Enterprise Linux 5 for AMD64 and Intel EM64T, Update 3
 - Red Hat Enterprise Linux 4 for x86, Update 8
 - Red Hat Enterprise Linux 4 for x86, Update 7
 - Red Hat Enterprise Linux 4 for AMD64 and Intel EM64T, Update 8
 - Red Hat Enterprise Linux 4 for AMD64 and Intel EM64T, Update 7
 - Red Hat Enterprise Linux 3 Update 3 for x86, Update 9
 - Red Hat Enterprise Linux 3 Update 3 for AMD64 and Intel EM64T (starting with the ProLiant Support Pack 7.2 and later), Update 9
 - SUSE Linux Enterprise Server 10 for x86, Service Pack 2
 - SUSE Linux Enterprise Server 10 for AMD64 and Intel EM64T, Service Pack 2

- SUSE Linux Enterprise Server 9 for x86, Service Pack 4
- SUSE Linux Enterprise Server 9 with Service Pack 4 for AMD64 and Intel EM64T (starting with the ProLiant Support Pack 7.2 and later)
- Browsers
 - Internet Explorer 8.0
 - Firefox 1.7 (local or remote access) or later
- System memory
 - 128 MB of RAM

Note: You can browse to a Linux server from a Windows system using Internet Explorer 6.0 or higher.

Installing the VCA for Linux

The VCA installation process installs the necessary files and starts the services, which are registered for automatic execution on the next system initialization. A reboot is not necessary after the installation process.

The VCA for Linux requires the VCRM 2.1 or later.

To install the VCA on a Linux system, complete the following steps:

Note: You must be logged in as root to perform the initial install, reinstall, or upgrade of the VCA.

1. Install SMH.
2. Execute the following commands to

Install: `rpm -ivh hpvca-2*.linux.rpm`

Upgrade: `rpm -Uvh hpvca-2*.linux.rpm`

Note: Starting with ProLiant Support Pack 7.2, VCA for Linux can be installed or upgraded as part of the ProLiant or Integrity Support Pack installation.

Note: During the installation process, you are not prompted to enter the VCRM details instead the following message is displayed "Execute the command: `/opt/hp/vcagent/etc/vcaconfig.sh` as 'root' user to configure the HP Version Control Agent."

3. If SMH has not been configured, then it must be configured. For more information on configuring SMH, see SMH Online Help System.
4. To configure the VCA, login as *root* and execute the following command:
`/opt/hp/vcagent/etc/vcaconfig.sh`

Note: If `opt/hp/vcagent/etc/vcaconfig.sh` is not executed after the initial installation of VCA, VCA will display "Unknown" status.

Result: The VCA service is stopped, displaying the following:

```
[root@localhost ~]# opt/hp/vcagent/etc/vcaconfig.sh
```

```
Stopping HP Version Control Agent: [ OK ]
```

A user interface is displayed, to enter the VCRM details. The VCRM host address, login name, and password can be specified. For example:

```
Please, set the required fields for version control agent configuration
Repository.....: <enter the name or IP of the system where the repository is installed>
Login.....: <enter a login name with operator or administrator privileges.
For example, vcadmin>
Password.....: <enter the password associated with the login name above>
Confirm Password: <reenter the password exactly as you entered it previously>
```

Note: After applying the configurations, the VCA service is started automatically with new settings.

Note: If you do not specify a VCRM, a message displays asking you if you want to specify the VCRM. If you select **No**, a warning message appears indicating a repository has not been configured.

5. The VCA configuration is complete. A reboot is not necessary.

Verifying the VCA service is running

To verify the VCA service is running on the system, enter the following:

1. For UnitedLinux and SUSE Linux, execute the following command:

```
/etc/init.d/hpvca status
```

The output that appears is similar to:

```
Checking for process hpvca: running
```

2. For Red Hat Linux, execute the following command:

```
# service hpvca status
```

The output that appears is similar to:

```
vcagentd (pid 698 697 696 695 694 657) is running...
```

Installing the VCA for Linux silently

The VCA installation for Linux enables you to silently install the VCA.

Installing VCA silently using the CLI

To install silently using the CLI:

From a command prompt, enter the following command:

```
rpm -ivh hpvca-2*.linux.rpm.
```

Alternatively, to install VCA silently using the HP Smart Update Manager:

1. Copy the Linux Support Pack contents from the HP SmartStart CD to a location on the system where you want to install VCA.
2. From the same location, execute the following command:

```
./hpsum -s -c hpvca-6.1.x-x.*linux.rpm
```

7 Installing the VCA using the HP Smart Update Manager

HP Smart Update Manager utility enables you to deploy Integrity Support Pack (ISP) and ProLiant Support Pack (PSP) software components from a single, easy-to-use interface. This utility enables legacy support of existing software while simplifying the overall deployment process. It is no longer necessary to run the SETUP executable files (SETUPC.EXE, SETUPEX.EXE, and SETUP.EXE). The HP Smart Update Manager utility now provides this functionality. The utility also provides installation logic and version control that automatically check for dependencies, installing only the correct updates for optimal configuration.



NOTE: The following operating systems are not supported by the HP Smart Update Manager:

- Novell Open Enterprise Server
 - Red Hat Enterprise Linux 3
 - SUSE Linux Enterprise Server 9
-

Pre-configuring and installing the Linux VCA component using the HP Smart Update Manager

This process installs the component with the configurations that are provided through the HP Smart Update Manager.

To pre-configure the VCA component using the HP Smart Update Manager:

1. From the Integrity or ProLiant Support Pack for Linux, run `./hpsum` command. The **HP Smart Update Manager Source Selections** screen appears.
2. Click on **Start Inventory** button. The **Select Installation Host(s)** screen appears when the inventory process is complete.
3. Select the Installation Host, and click **Next** to start the discovery process.
4. After the Discovery Process is complete, the **Select Bundle Filter** screen appears.
5. Select the appropriate bundle for the Operating System. Click **OK**. The **Select Items to be Installed** screen appears.
6. Select the **HP VCA for Linux** component.
7. To pre-configure:
 - a. Click on **Configure Now** link next to the VCA component in the **Optional Actions** column. The **HP Smart Update Manager RPM Configuration Options** screen appears.
 - b. In the **VCRM Server Name** field, enter the VCRM system name.
 - c. In the **VCRM Login User** field, enter the System Management Homepage user name having administrator or operator or user privileges for the VCRM system.

- d. In the **VCRM Login User Password** field, enter the password for the user name specified in [Step 7.c](#).
 - e. Click **OK** to complete the VCRM configuration.
8. To install:
 - a. Select the **HP VCA for Linux** component, and click on the **Install** button.
 - b. To install the VCA as a single component, Click on **Deselect All** button. Select only the **HP VCA for Linux** component, and click on the **Install** button.



NOTE: If the System Management Homepage is not already installed, then select HP SMH component for installation.

NOTE: The VCA component can also be installed by invoking from the shell prompt:
For example, `./hpsum -c hpvca-6.1.x-x.*linux.rpm`

Pre-configuring and installing the Windows VCA component using HP Smart Update Manager

This process installs the component with the configurations that are provided through the HP Smart Update Manager.

To pre-configure the Windows VCA component using HP Smart Update Manager:

1. From the Integrity or ProLiant Support Pack for Windows, run `hpsum.exe`. The **HP Smart Update Manager Source Selections** screen appears.
2. Click on **Start Inventory** button. The **Select Installation Host(s)** screen appears when the inventory process is complete.
3. Select the Installation Host, and click **Next** to start the discovery process.
4. After the Discovery Process is complete, the **Select Bundle Filter** screen appears.
5. Select the appropriate bundle for the Operating System. Click **OK**. The **Select Items to be Installed** screen appears.
6. Select the **HP VCA for Windows** component.
7. To pre-configure:
 - a. Click on **Configure Now** link next to the VCA component in the **Optional Actions** column. The **Version Control Agent Setup** screen appears.
 - b. In the **Computer Name** field, enter the VCRM system name.
 - c. In the **Login Account** field, enter the System Management Homepage user name having administrator or operator or user privileges for the VCRM system.
 - d. In the **Password** field, enter the password for the user name specified in [Step 7.c](#).

- e. Type the same password in the **Confirm Password** field.
 - f. Click **Save** to complete the VCRM configuration.
8. To install the VCA:
- a. Select the **HP VCA for Windows** component, and click on the **Install** button.
 - b. To install the VCA as a single component, click on **Deselect All** button. Select only the **HP VCA for Windows** component, and click on the **Install** button.



NOTE: If HP Smart Update Manager is available as a componentized executable in VCRM repository, in order to avoid dependency installation failure, VCA will invoke HP Smart Update Manager component installation for both Windows and Linux.

NOTE: If the System Management Homepage is not already installed, then select HP SMH component for installation.

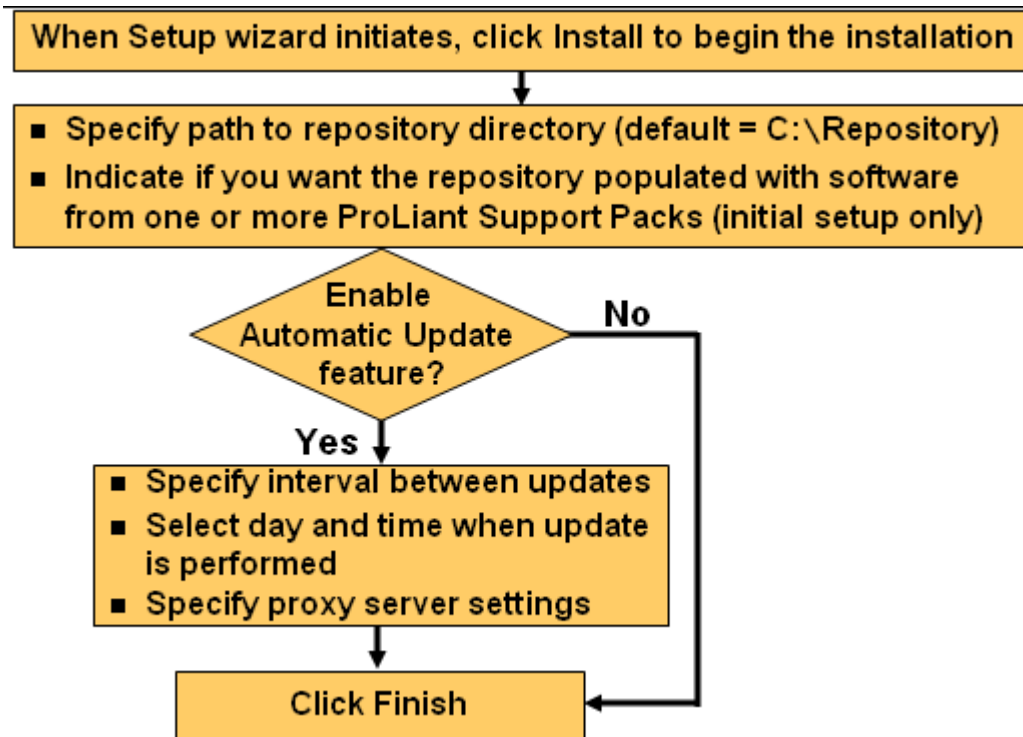
Installing the VCA without pre-configuration

You can install the VCA component interactively without any configurations. After installation, you can configure the VCA settings at any time by browsing to VCA with SMH's **Administrator** or **Operator** privileges.

8 Installing the VCRM on Windows

VCRM requirements for Windows

The following diagram illustrates a logical order to the VCRM installation process.



System requirements

To install the VCRM, the computer must meet the minimum requirements listed.

Supported hardware and software

- Operating system
 - Windows Server 2003
 - Windows Server 2003 ES for 64-bit Extended Systems
 - Windows Server 2003 64-bit Enterprise Edition
 - Windows Unified Data Storage Server 2003 x64 Edition
 - Windows XP Professional with Service Pack 2 for x86
 - Windows Server 2008
 - Windows Server 2008 R2
 - Windows Server 2008 R2 Foundation
 - Windows Vista
- Browser
 - Firefox 1.0 or later
 - Internet Explorer 8.0
 - Internet Explorer 7.0
 - Internet Explorer 6.0 with Service Pack 1 or later

- Server software
 - TCP/IP installed
 - SMH installed
- Hardware
 - ProLiant Server
 - HP Business Desktops
 - Windows Integrity Servers
- Disk space
 - 14-15 MB (Installation files only)
 - 200 MB in the VCRM installation drive for temporary ProLiant or Integrity Support Pack extraction
 - 2 GB for the repository. This must be on a local, writeable drive.
- System memory
 - 256 MB for Windows XP and Windows Server 2003



IMPORTANT: The disk space requirements previously mentioned are specific to the installation of the VCRM. The size of the repository depends on the files contained in the repository directory. Each ProLiant or Integrity Support Pack executable, which is downloaded automatically if the autoupdate feature is enabled, is approximately 100 MB in size and extracts to approximately 200 MB in size. If you are downloading multiple ProLiant or Integrity Support Packs, then you can multiply this size by the number of ProLiant or Integrity Support Packs you are downloading in your repository to determine how much disk space is required.

Client requirements

Minimum requirements for client access to the VCRM are outlined.

Hardware and software requirements

- Operating system
 - Windows Server 2003
 - Windows XP
 - Windows Server 2008
 - Windows Server 2008 R2
 - Windows Server 2008 R2 Foundation
 - Windows Vista
- Browser
 - Internet Explorer 6.0 with Service Pack 1 or later
 - Internet Explorer 7.0
 - Internet Explorer 8.0
 - Mozilla 3.0

Note: Uploading software by way of the Mozilla browser interface is not supported.
- System memory
 - 256 MB of RAM for Windows XP or Windows Server 2003

Configuring Internet Explorer settings for SMH pre-configuration

Some features of the VCRM's browser interface depend on browser settings at the client system from which the VCRM is being accessed. The security settings in Microsoft Internet Explorer must be set to initialize the **VCRM Upload** process.

To configure the Microsoft Internet Explorer security settings:

1. From the **Microsoft Internet Explorer** toolbar, click **Tools** and select **Internet Options**. The **Internet Options** dialog box appears.
2. Click **Custom Level**. The **Security Settings** dialog box appears.
3. Under **ActiveX controls and plug-ins**, **Download signed ActiveX controls**, select **Enable**.
4. Under **Run ActiveX controls and plug-ins**, select **Enable**.
5. Under **Script ActiveX controls marked safe for scripting**, select **Enable**.

The advanced settings in Microsoft Internet Explorer must be set to ensure that saving a copy of the VCRM log functions when the log is cleared.

To configure the Microsoft Internet Explorer advanced settings:

1. From the **Microsoft Internet Explorer** toolbar, click **Tools** and select **Internet Options**. The **Internet Options** dialog box appears.
2. Click the **Advanced** tab.
3. Scroll down to the **Security** section, and disable **Do not save encrypted pages to disk**.
4. Click **OK** to save your changes and close the **Internet Options** dialog box.

Installation Guidelines

This section elaborates the guidelines that you need to consider while installing VCRM either during HP SIM installation or through independent installation.

Following are the points that you must consider while installing VCRM:

- While the VCRM is installed on only one system, you must install the VCA on all systems in your network.
- After installing VCRM, use the **Component** option to configure components such as VCA and SMH before deploying them to all target servers.
- Use the **ProLiant Support Pack Install** in HP SIM to install the PSP components on all target servers for the first time.
- Use the **Configure or Repair Agents** option in HP SIM to configure and enable SNMP on all target systems.

Installing the VCRM

The VCRM can be installed during the HP SIM installation or you can install it independently. Although the VCRM can be obtained from multiple sources, the following example shows the steps for obtaining the software from the HP Insight Software DVD and installing it along with HP SIM.

To install VCRM from the HP Insight Software DVD:

1. Insert the HP Insight Software DVD in the DVD drive. The **HP Insight Software** window appears.
2. Click **Agree** to accept the license agreement. You can click **Disagree** to cancel and close the window.
3. Click the **Products** tab.
4. From the left pane, click the **Version Control Repository Manager** link. The VCRM options appear in the right pane.
5. The VCRM installation wizard initiates the HP Insight Management Agent configuration settings in interactive mode when the installation executable is run from the command line or launched from Windows Explorer. After the wizard initiates, the **HP Setup - VCRM** dialog box appears.

If you have a previous version of the VCRM installed on a machine, the installation wizard detects it and initiates the upgrade with the current version displayed in the dialog box.

If you have the current version of the VCRM installed on a machine, the installation wizard detects it and initiates the reinstallation. The **HP Setup - VCRM** dialog box indicates that the software is installed and current and that you can reinstall it.

Note: If you have a newer version of the VCRM installed and you want to downgrade, uninstall the current VCRM, reboot the machine, and run the new installation.

6. Click **Install**. The **VCRM Setup - Repository Directory** dialog box appears.
Note: You can click **View Documentation** to view the documentation.
7. Click **Cancel** to exit the setup and abort the installation.
Note: When VCRM is selected, HP SIM and HP SMH will get selected by default.

Configuration Guidelines

This section elaborates the guidelines that you need to consider while configuring VCRM after installing VCRM either during HP SIM installation or through independent installation. When you install VCRM you must set up the repository directory, populate the repository, and configure the automatic Update feature. Following are the methods that you can use to populate the repository.

- Populate the repository while installing VCRM. Ensure that you have read access to the folders that contain the PSPs and LSPs.
- Populate the repository from the VCRM home page by uploading a support pack. Ensure that you have read access to the folders that contain the PSPs and LSPs.
- Populate the repository from the HP SmartStart CD or HP SmartSetup CD.
- Configure an automatic update of the repository.

You can schedule an automatic update of the repository. However, ensure that the VCRM is connected to the Internet. Also, atleast one VCA should be pointed to the VCRM in the last thirty days.

- Update the repository from <http://www.hp.com>.

VCRM Setup - Repository Directory

The **VCRM Setup - Repository Directory** dialog box enables you to specify the directory where HP software is located so the VCRM can monitor it. The default repository directory path is `%SystemDrive%\repository`. In addition, you can select to have the repository initially populated if you are installing the VCRM for the first time.

Note: If you are upgrading or reinstalling the VCRM, the **Perform an initial repository population** option is unavailable.

To change the repository directory:

1. Click **Browse**.
2. Select the directory where the HP software is to be stored. The path to the directory appears in the **Repository Directory** field.
3. Select **Perform an initial repository population** if you want to have the repository updated with ProLiant and Integrity Support Packs.



NOTE: If **Perform an initial repository population** is deselected, or the option is not displayed, the **Select OS for PSP download** page appears next.

4. Click **Next** to accept the selected directory. If you selected **Perform an initial repository population** on the previous dialog box, the **VCRM Setup - Initial Repository Configuration** dialog box appears. The **Automatic Update** dialog box enables you to schedule automatic updates for your repository from the HP website.

Note: If you do not want to use the automatic update feature, refer to [Updating a repository](#) to update the repository manually.

Repository Population - Initial Installation

1. Click **Add** to select a directory that contains a ProLiant and Integrity Support Pack. The **Browse for Folder** dialog box appears.
2. Navigate to the directory that contains a ProLiant and Integrity Support Pack, and click **OK** or **Cancel** to abort the selection.

All Support Packs found in the selected directory are added to the list shown in the **Initial Repository Configuration** dialog box. You can choose as many directories as you want, and then delete any Support Packs from the list you do not want to be copied.
3. Click **Next**. The **Download HP ProLiant and HP Integrity Support Packs for Operating System** page appears.

Select the operating systems from the list. VCRM downloads the HP ProLiant Support Packs and HP Integrity Support Packs for the selected operating systems.
4. Click **Next**. The **VCRM Setup - Automatic Update** dialog box appears.

Configuring Automatic Update

The **Automatic Update** dialog box enables you to schedule automatic updates for your repository from the HP website.

Note: If you do not want to use the automatic update feature, refer to [Updating a repository](#) to update the repository manually.

To configure an automatic update:

1. Select **Enable Automatic Update** to automatically download ProLiant and Integrity Support Packs and components at a specific time.
2. In the **Interval between updates** field, select an interval from the dropdown menu.
3. In the **Day of Week** field, select a day of the week to update the repository from the dropdown menu to update the repository.
4. In the **Time of Day** field, select a time for the update to occur from the dropdown menu for the update to occur.
5. Use the **Set Proxy** option to configure a proxy server for VCRM.

To set the proxy server:

- a. Click **Set Proxy**. The **Proxy Server Settings** dialog box displays.
 - b. In the **Server Name** field, enter the name of the proxy server. Clearing this field removes all proxy server settings, and the automatic update is performed without connecting through a proxy server.
 - c. In the **Port** field, enter the proxy server port. For example, enter **8080**. If the **Server Name** field is blank, this value is ignored.
 - d. In the **Server Login** field, enter a valid login for the proxy server. Leave this field blank if a server login is not required.
 - e. In the **Password** field, enter a valid password for the login on the proxy server. If the **Server Login** field is blank, this field is ignored.
 - f. Click **OK** to save your settings or **Cancel** to discard the settings.
6. Click **Finish** to save the VCRM settings.

If **Automatic Update** is enabled and a proxy server is configured, the connection with the proxy server is verified before continuing. If the proxy server cannot be reached, a message appears indicating there was an error testing the download of the autoupdate catalog. Click **Yes** to save your settings or click **No** to re-enter the proxy server information.

7. The **HP Setup** wizard page appears, and the installation begins. When it completes, the result of the installation appears.
8. Click **Close**. The installation is complete.

Note: You can install the VCRM during the HP SIM installation. Refer to the *HP SIM User Guide* for more details. Also remember, that in a network, VCRM must be installed on only one system, but the VCA must be installed on all servers.

Installing the VCRM for Windows silently

The VCRM installation for Windows enables you to silently install the VCRM.

Installing silently using the CLI

To install silently using the CLI:

From a command prompt, enter the following command:

```
component name /silent
```

or

```
component name /s
```

For example, you might enter `c:\VCRM.exe /silent`.



NOTE: Installing the VCRM using `/silent` uses `%SystemDrive%\repository` as the repository store directory, so you must configure the VCRM Automatic Update Settings manually.

9 Updating a repository

The **autoupdate** feature of the *HP Version Control Repository Manager* is the preferred solution for updating repositories automatically. The **autoupdate** feature of the VCRM keeps servers connected to HP for proactive delivery of the latest ProLiant and Integrity Support Packs and components directly to a specified repository. You can configure the automatic population of the repository during the VCRM installation, or in the event you cannot use the **autoupdate** feature, you can populate the repository from the HP SmartStart CD as indicated in the [Updating the repository from the HP SmartStart CD](#) section. If you must update the repository manually, for example, because you deleted a Support Pack from the repository and you later needed it, refer to the [Updating the repository manually from the HP SmartStart CD](#) section.

Updating the repository from the HP SmartStart CD

To populate the repository with ProLiant Support Packs from the HP SmartStart CD 6.0 or later:

1. Insert the **HP SmartStart CD** in the CD-ROM drive. The **SmartStart welcome** screen appears.
2. Click **Populate a version control repository with the ProLiant Support Pack available on this HP SmartStart CD**. A screen appears asking you to enter a machine name.
3. In the **Machine Name** field, enter the name of the machine that has the repository installed.
4. Click **Populate**. Click **Clear** to clear the **Machine Name** field or **Back** to return to the previous screen. The **SMH** appears.
5. In the **User** field, select the appropriate login from the dropdown menu.
6. In the **Password** field, enter the password associated with the login that you selected.
7. Click **OK**. The **Upload Support Pack(s)** page appears.
8. To upload a ProLiant Support Pack, refer to the [Updating the repository manually from the HP SmartStart CD](#).

Updating the repository manually from the HP SmartStart CD

To populate the repository manually with ProLiant Support Packs from the HP SmartStart CD version 6.0 or later:

1. Insert the **HP SmartStart CD** in the CD-ROM drive.
2. From **Windows Explorer**, double-click the CD-ROM drive to open the HP SmartStart CD.
3. Click **Compaq** to open the directory.
4. From within the **Compaq** directory, click **CSP** to open the directory.
5. The **CSP** directory contains a **NW** directory that contains the Netware-related Support Packs, a **Linux** directory for Linux-related Support Packs, and a **Windows NT®** directory that contains all of the components and support packs and an XML file for each supported Microsoft operating system. Click **Linux** or **NT** depending on the type of Support Packs with which you want to populate your repository.
6. After you have opened one of the directories, select all of the Support Pack files, click **Edit** from the Windows Explorer toolbar, and select **Copy**.
7. From Windows Explorer, navigate to the repository directory, for example, `c:\repository`. Click the repository directory.
8. From the **Windows Explorer** toolbar, click **Edit** and select **Paste**. The Support Packs are copied into the `c:\repository` directory. The repository is now populated.
9. From the `c:\repository` directory, select a component. Right-click the component and select **Properties**. Note that the file is read-only. For the VCRM to allow component configuration, a component cannot be read-only. Deselect the **read-only** attribute and click **OK**.

Updating the repository manually from the HP SmartSetup CD

To populate the repository with Integrity Support Packs from the HP SmartSetup CD 3.2 or later:

1. Insert the **HP SmartSetup CD** in the CD-ROM drive.
2. From **Windows Explorer**, double-click the CD-ROM drive to open the HP SmartSetup CD.
3. Click **Contents** to open the directory.

4. From within the `Contents` directory, click `supportpack` to open the directory.
5. The `contents` directory contains a `supportpack` directory that contains all Integrity Support Packs.
6. After you have opened the directory, select all of the Integrity Support Pack files, click **Edit** from the Windows Explorer toolbar, and select **Copy**.
7. From **Windows Explorer**, navigate to the repository directory, for example, `c:\repository`. Select the repository directory.
8. From the **Windows Explorer** toolbar, click **Edit** and select **Paste**. The Integrity Support Packs are copied into the `c:\repository` directory. The repository is populated.
9. From the `c:\repository` directory, select a component. Right-click the component and select **Properties**. Note that the file is read-only. For the VCRM to allow component configuration, a component cannot be read-only. Deselect the read-only attribute and click **OK**.

Updating the repository using the Upload a Support Pack option

The **Upload a Support Pack** in VCRM allows you to browse for HP ProLiant and Integrity Support Packs on drives and CDs accessible to your local system, and have those ProLiant and Integrity Support Packs copied into the Version Control Repository directory.

For more information on using the **Upload a Support Pack** option, see the *HP Version Control Repository Manager Online Help*.

Updating the repository automatically

The **Update from hp.com Now** option allows you to update the repository from <http://www.hp.com/servers/swdrivers> without waiting for a scheduled update to occur.



NOTE: Ensure that either the VCA is configured and directed to the VCRM or the operating systems are selected for PSP download through VCRM Installer GUI during installation/upgrade, web page GUI during configuration, or through the CLI option for automatically updating the repository. For more information on using the automatic update option, see the *HP Version Control Repository Manager Online Help*.

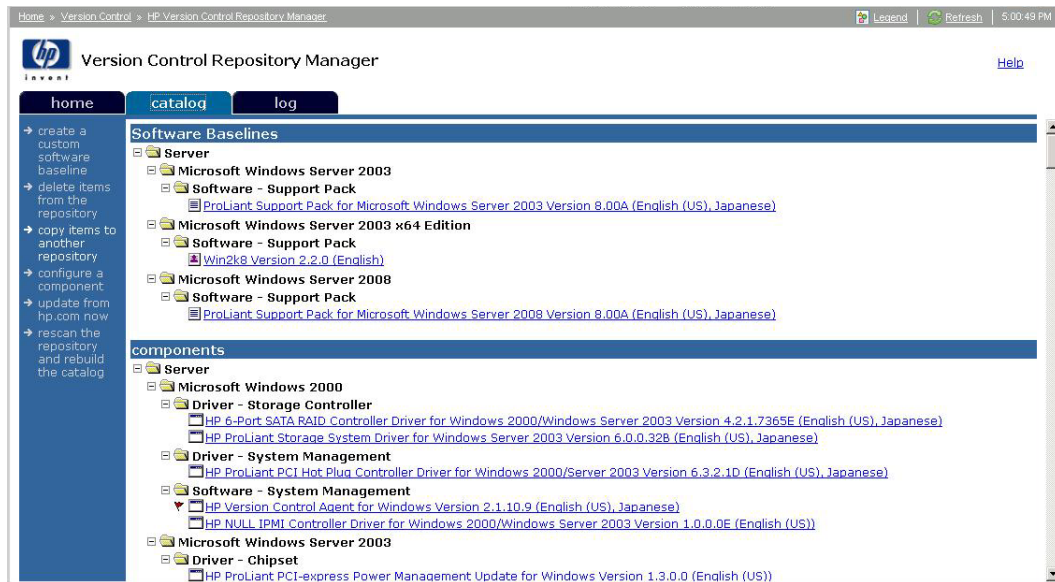
Data migration using the VCRM data migration option

In addition to the repository copy function available in VCRM, HP Version Control Repository Manager provides with a new option to migrate the VCRM data as well as copy the VCRM settings from one repository to another.

For information on data migration, refer to *HP Insight Software Preinstallation Worksheet* and *HP Insight Software Installation and Configuration Guide*.

Complete the following steps to copy the VCRM settings and migrating the data to another repository.

1. Click the **Catalog** tab. The **Catalog** page appears.



2. Click the **Copy Items to Another Repository** link. The **Copy Support Packs and Components** page appears.



3. Select the **Migrate HP Version Control Repository Manager Settings** checkbox. Click **Reset** to clear the selected checkbox or **Cancel** to abort the VCRM data migration operation.

4. Click **Next**.

The **Destination Version Control Repository Manager** page appears.

The screenshot shows a Windows-style dialog box titled "Copy". Inside, there is a section titled "Destination Version Control Repository Manager" with the instruction: "Enter the computer name where the destination Version Control Repository Manager will receive the selected Support Packs and components." Below this are three input fields: "Computer Name", "Login", and "Password". The "Login" field has a small hint text above it: "Select the login account and enter a password for the target repository". Below these fields is a section titled "Selected Files" which contains a list box with one item: "HP ProLiant Storage System Driver for Windows 2000/Windows Server 2003 Version 5.22.0.32C (English (US), Japanese)". At the bottom of the dialog, there is a "Copy" section with the instruction: "Click on the Finish button to copy the listed Support Packs and components." and three buttons: "Back", "Finish", and "Cancel".

- a. In the **Computer Name** field, enter the name of the computer to which the VCRM settings and data are to be copied.
 - b. In the **Login** field, enter the login name.
 - c. In the **Password** field, enter the password for the account you entered.
5. Click **Finish**. Click **Back** to return to the previous page, or **Cancel** to abort the Copy request.
6. Click **Close**. The **Catalog** page is refreshed. The repository from which the VCRM settings and data was copied, logs the success or failure of the copy operation.

Configuring the repository using VCRM CLI

This section describes procedures that you can use to configure the repository using the VCRM CLI. The topics discussed in this section are:

- Displaying the current VCRM settings
- Selecting the operating systems to download ProLiant Support Packs
- Changing the repository folder
- Initializing the update from the web
- Configuring automatic update for VCRM

Displaying the current VCRM settings

From the command prompt, enter the following command:

```
vcrcli.exe /show
```

The command displays the current settings of the HP Version Control Repository Manager in XML format.



NOTE: VCRM is restarted while executing `vcrmcli.exe` file.



NOTE: The displayed XML output may contain Proxy server password.

Selecting the operating systems to download ProLiant Support Packs

From the command prompt, enter the following command:

```
vcrmcli.exe /os "OS version"
```

The command configures the operating systems listed to download ProLiant Support Packs.

Example:

```
vcrmcli.exe /os "win2003x64, win2003x86, win2008x64, win2008x86, win2k8 R2, Rhel5, Rhel5x64, Rhel4, Rhel4x64"
```



NOTE: VCRM is restarted while executing `vcrmcli.exe` file.



NOTE: Specify the values for the parameters in double quotation marks ("").

The command configures the operating systems list to download ProLiant Support Packs as shown:

- win2003x64 downloads ProLiant Support Packs on Windows Server 2003 x64 platform.
- win2003x86 downloads ProLiant Support Packs on Windows Server 2003 x86 platform.
- win2008x64 downloads ProLiant Support Packs on Windows Server 2008 x64 platform.
- win2008x86 downloads ProLiant Support Packs on Windows Server 2008 x86 platform.
- win2k8 R2 downloads ProLiant Support Packs on Windows Server 2008 x64 platform.
- Rhel5 downloads ProLiant Support Packs on Red Hat Enterprise Linux 5 server x86 platform.
- Rhel5x64 downloads ProLiant Support Packs on Red Hat Enterprise Linux 5 server AMD64/EM64T platforms.
- Rhel4 downloads ProLiant Support Packs on Red Hat Enterprise Linux 4 server x86 platform.
- Rhel4x64 downloads ProLiant Support Packs on Red Hat Enterprise Linux 4 server AMD64/EM64T platforms.



NOTE: Executing the command `vcrmcli.exe /os` without any value displays all the supported operating system attributes.



NOTE: VCRM downloads ProLiant Support Packs for HP Version Control Agent's operating systems.

Changing the repository folder

From the command prompt, enter the following command:

```
vcrmcli.exe /repository "location"
```

The command configures the VCRM repository directory to the new location while retaining all of the other settings.

Example:

```
vcrmcli.exe /repository "c:\new repository"
```

The command configures the VCRM repository directory to "c:\new repository" directory.



NOTE: VCRM is restarted while executing `vcrmcli.exe` file.



NOTE: Specify the values for the parameters in double quotation marks ("").

Initializing the update from the web

From the command prompt, enter the following command:

```
vcrmcli.exe /updatenow
```



NOTE: VCRM is restarted while executing `vcrmcli.exe` file.

The command starts automatically updating the current VCRM repository directory from the web based on the current settings while retaining all of the other settings including the VCRM autoupdate schedule settings.



NOTE: If `/updatenow` command is entered with other options like `/repository`, `/autoupdate`, etc, VCRM CLI applies all the new settings and then start the update once.

Configuring automatic update for VCRM directory

From the command prompt, enter the following command:

```
vcrmcli.exe /autoupdate  
/interval "Interval"  
/dayofweek "Day of the week"  
/time "Update Start time"  
/proxyname "Proxy server name or IP address"  
/proxyport "Port number"  
/proxyuser "User Name"  
/proxypwd "Password"
```



NOTE: VCRM is restarted while executing `vcrmcli.exe` file.

The command configures the VCRM autoupdate schedule settings.

Example:

```
vcrmcli.exe /autoupdate /interval "7" /dayofweek "0" /time "22" /proxyname  
"proxy.domain.com" /proxyport "1234" /proxyuser "" /proxypwd ""
```



NOTE: Specify the values for each of the parameters in double quotation marks ("").

where,

`/interval "7"` corresponds to one week (7 days, valid values: 1, 2, 7, 14, 28)

`/dayofweek "0"` corresponds to Sunday (0 is default, and is not used if the interval is less than 7. Valid values: 0, 1, 2, 3, 4, 5, 6)

`/time "22"` corresponds to 10 PM (24-hour time format, valid values: 0 to 23)

`/proxyname "proxy.domain.com"` "proxy.domain.com" specifies the name or IPv4 of the proxy server to use for autodownload

`/proxyport "1234"` "1234" specifies the port number for the given proxy name

`/proxyuser ""` specifies the user name for authenticating the proxy server

`/proxypwd ""` specifies the password for the given proxy user name



NOTE: If `/proxyuser` argument has a valid user name and `/proxypwd` is not used as argument, `vcrmcli.exe` prompts the user for a password during execution.

The command configures the autoupdate schedule settings to update the repository on Sunday 10 PM.

10 Uninstalling the VCA on Windows operating systems

To uninstall the VCA:

1. Select **Start**→**Settings**→**Control Panel**.
2. Click **Add/Remove Programs**. The **Add/Remove Programs Properties** dialog box appears with a listing of installed software.
3. Select **VCA**.
4. Click **Change/Remove**. The **Remove** dialog box appears asking you to confirm your intention to remove the VCA.
5. Click **Yes**.

Uninstalling the VCA on Windows operating systems silently

The VCA uninstallation enables you to silently uninstall the VCA on Windows x86 and x64 systems.

Uninstalling silently using the CLI

To uninstall the VCA using the CLI:

From the command prompt, enter the following command:

```
#MsiExec.exe /qn /X{5A5F45AE-0250-4C34-9D89-F10BDDEE665F}
```

11 Uninstalling the VCA on Linux operating systems

To uninstall the VCA for Linux:

To uninstall the *HP Version Control Agent*, log in as root, and execute the following command:

```
# rpm -e <VCA package name>
```

For example,

```
# rpm -e hpvca
```

where, hpvca is the version control package name.

The VCA is uninstalled.

Note: After the VCA has been removed, the configuration options and logs are deleted.

12 Uninstalling the VCRM on Windows operating systems

To uninstall VCRM:

1. Select **Start**→**Settings**→**Control Panel**.
2. Click **Add/Remove Programs**. The **Add/Remove Programs** dialog box appears with a listing of installed software.
3. Select **VCRM**.
4. Click **Change/Remove**. The **Remove** dialog box appears asking you to confirm your intention to remove the VCRM.
5. Click **Yes**. If you decide you do not want to uninstall the VCRM, click **No** to cancel.

Note: The designated repository directory is not deleted during uninstallation. The directory must be manually deleted.

Uninstalling the VCRM on Windows operating systems silently

The VCRM uninstallation enables you to silently uninstall the VCRM on Windows x86 and x64 systems.

Uninstalling silently using the CLI

To uninstall the VCRM using the CLI:

From the command prompt, enter the following command:

```
#MsiExec.exe /qn /X{221474E1-4699-44B8-8A86-748E1B15108B}
```

Support and other resources

New and changed information in this edition

The following sections list what is new for the HP Version Control releases.

March 2010, Version Control 6.1.0 release

Following are the product enhancements for the HP Version Control 6.1.0 March 2010 release:

HP Version Control Repository Manager (VCRM) adds the following enhancements with the current release:

- Support for the Linux Deployment Utility (LDU) retirement.
- Support for the new changes in the Version Control GUI to match the System Management Homepage (SMH) GUI.

November 2009, Version Control 6.0 release

Following are the product enhancements for the HP Version Control 6.0 November 2009 release:

HP Version Control Agent (VCA) adds the following enhancements with the current release:

- Native x64 (64 bit) support.
- Support for Trusted Platform Module (TPM).

HP Version Control Repository Manager (VCRM) adds the following enhancements with the current release:

- Native x64 (64-bit) support.
- Support for a new VCRM command line interface for configuring the repository folder.
- Support for enabling the repository folder autoupdate using the command line interface.
- Support for multithreaded file download functionality.
- Support for a new GUI-based screen page for downloading Integrity Support Packs and ProLiant Support Packs.
- Support for data migration from one repository to another.

Typographic conventions

<code>find(1)</code>	HP-UX manpage. In this example, "find" is the manpage name and "1" is the manpage section.
<i>Book Title</i>	Title of a book or other document.
<u>Linked Title</u>	Title that is a hyperlink to a book or other document.
<u>http://www.hp.com</u>	A Web site address that is a hyperlink to the site.
<code>Command</code>	Command name or qualified command phrase.
<code>user input</code>	Commands and other text that you type.
<code>computer output</code>	Text displayed by the computer.
Enter	The name of a keyboard key. Note that Return and Enter both refer to the same key. A sequence such as Ctrl+A indicates that you must hold down the key labeled Ctrl while pressing the A key.
term	Defined use of an important word or phrase.
<code>variable</code>	The name of an environment variable, for example <code>PATH</code> or <code>errno</code> .
<code>value</code>	A value that you may replace in a command or function, or information in a display that represents several possible values.
<code><element></code>	An element used in a markup language.
<code>attrib=</code>	An attribute used in a markup language.

Documentation

For more information regarding the VCA and VCRM, refer to the following sources:

- **HP Version Control Installation Guide.** This document provides information about installing and getting started using the VCA and VCRM. This guide includes an introduction to basic concepts, definitions, and functionality associated with the VCA and VCRM. This document is available on the HP Management DVD and at <http://h18013.www1.hp.com/products/servers/management/agents/documentation.html>.
- **VCA and VCRM Help System.** The help systems provide a complete set of documentation for using, maintaining, and troubleshooting the VCA and the VCRM. Download the VCA or VCRM Online Help in PDF format from <http://h18013.www1.hp.com/products/servers/management/agents/documentation.html>.
- **HP System Management Homepage Installation Guide.** The System Management Homepage Installation Guide provides information about installing and getting started using the SMH. This guide includes an introduction to basic concepts, definitions, and functionality associated with the VCA and VCRM. This document is available on the HP Management DVD and at <http://h18013.www1.hp.com/products/servers/management/agents/documentation.html>.

For More Information

- **ProLiant Support Pack.** Download the VCRM and the latest ProLiant or Integrity Support Pack, which contains the latest VCA and the HP Remote Deployment Utility. Download the ProLiant Support Pack at <http://www.hp.com/servers/swdrivers> or the Integrity Support Pack at <http://www.hp.com/support/itaniumservers>.
- **Maintenance.** Read about maintenance and support of HP products to include customer advisories, knowledge bases, and more at <http://itrc.hp.com>.
- **Subscriber's Choice.** Receive proactive notification by email each day regarding new items that are available at <http://www.hp.com/go/subscribe-gate1>.

Publishing history

This section provides the publishing history of the document.

Table 1 Publishing history

Manufacturing Part Number	Description	Edition Number	Publication Date
381382-403	Documentation for software version 6.1.0.	19	March 2010
381382-402	Documentation for Windows Integrity 6.5 release.	18	October 2009
381382-401	Documentation for software version 6.0.	17	November 2009
381382-009	Documentation for software version 2.2.1.	16	March 2009
381382-008	Documentation for software version 2.2.0.	15	January 2009
381382-007	Documentation for software version 2.1.10.	14	February 2008
381382-006	Documentation for software version 2.1.9.	13	February 2008
381382-005	Documentation for software version 2.1.8.	12	April 2007
381382-004	Documentation for software version 2.1.7.	11	January 2007
381382-003	Documentation for software version 2.1.4.	10	February 2006

Manufacturing Part Number	Description	Edition Number	Publication Date
381382-002	Documentation for software version 2.1.4.	9	August 2005
381382-001	Documentation for software version 2.0.8.	8	March 2005
257630-007	Documentation for software version 2.0.7.	7	August 2004
257630-006	Documentation for software version 2.0.6. Addition of information to support the VCA for Linux and support of the Software Print feature.	6	February 2004
257630-005	Documentation for software version 2.0.5. Original release.	5	December 2003

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feedback@fc.hp.com. Include the document title, manufacturing part number, and any comment, error found, or suggestion for improvement you have concerning this document.

Glossary

available software	A listing of the software components available in the repository that the VCA has been configured to point to. When browsing directly into a VCA, these additional components can be selected for installation.
component	A component is a single, self-describing, installable (interactive or silent) binary file containing a single piece of software, such as firmware image, driver, agent, or utility, that is supported by the management and update tools.
Custom Software Baseline	A set of HP software components that have been bundled together as a baseline by the customer. Modifying the contents of an existing Support Pack provides customers with the flexibility to define their own baselines for their environment.
graphical user interface (GUI)	A program interface that takes advantage of the computer's graphics capabilities to make the program easier to use. HP SIM's GUI is Web-enabled and displays in a web browser.
HP Insight Management Agent	A program that regularly gathers information or performs some other service without the user's immediate presence.
HP ProLiant and Integrity Support Pack	An HP ProLiant and Integrity Support Pack, or Custom Software Baseline is a set of HP software components that have been bundled together by HP, and verified to work with a particular operating system. A ProLiant and Integrity Support Pack contains driver components, agent components, and application and utility components. All of these are verified to install together.
HP Systems Insight Manager	<p>The system management software that is capable of managing a wide variety of systems, including HP systems, clusters, desktops, workstations, and portables.</p> <p>HP SIM combines the strengths of HP Insight Manager 7, HP Tootools, and HP Servicecontrol Manager to deliver a single tool for managing HP ProLiant, Integrity, and HP 9000 systems running Windows, Linux, and HP-UX. The core HP SIM software delivers the essential capabilities required to manage all HP server platforms. HP SIM can also be extended to deliver unparalleled breadth of system management with plug-ins for HP storage, power, client, and printer products. Plug-ins for rapid deployment, performance management, and workload management enable systems administrators to pick the value added software required to deliver complete lifecycle management of their hardware assets.</p>
HP Version Control Agent	An Insight Management Agent that is installed on a server to enable the customer to see the HP software that is installed on that server. The VCA can be configured to point to a repository being managed by the VCRM, enabling easy version comparison and software deployment from the repository to the server that the VCA is installed upon.
HP Version Control Repository Manager	An Insight Management Agent that enables a customer to manage software from HP that is stored in a directory/repository known as the Version Control Repository.
HP Web-enabled System Management Software	The software that manages HP Web-enabled products.
installed version	A particular HP software component that is installed on the server on which the VCA is installed.
latest version	The latest version of a particular HP software component that is contained in the repository.
overall software status	This section indicates whether the software on the server on which the VCA is installed has any updates available within the repository in which it has been configured to monitor.
Red Hat Package Manager (RPM)	The Red Hat Package Manager is a powerful package manager that can be used to build, install, query, verify, update, and uninstall individual software packages. A package consists of an archive of files and package information, including name, version, and description.
Reference Support Pack	A baseline bundle of HP software components that the VCA can be configured to point to in the repository. This setting enables users to indicate that they want to keep all of their software up to a certain Support Pack level.

Replicate Agent Settings	A tool that can be used to copy Web-based agent settings to a group of systems.
repository	A directory containing ProLiant and Integrity Support Packs and Smart Components.
Secure Task Execution (STE)	The secure execution of a task from a managed system. This feature of HP SIM ensures that the user requesting the task has the appropriate rights to perform the task, and encrypts the request to protect data from snooping.
Simple Network Management Protocol (SNMP)	One of the management protocols supported by HP SIM. Traditional management protocol used extensively by networking systems and most servers. MIB-2 is the standard information available consistently across all vendors.
single login	Permission granted to an authenticated user browsing to HP SIM to browse to any of the managed systems from within HP SIM without re-authenticating to the managed system. HP SIM is the initial point of authentication and browsing to another managed system must be from within HP SIM.
software inventory	A listing of the HP software installed on the system where the VCA is installed.
support pack version	A field that displays the version of a particular HP software component that is contained in the Reference Support Pack that the VCA has been configured to use as a baseline. There might be a later version than this available in the repository, but this is the latest version of this particular component in the Reference Support Pack.
System Management Homepage	An integrated piece of software used by the HP suite of HP Web-enabled System Management Software to communicate over HTTP and HTTPS. It provides a uniform set of functionality and security to HP Web-enabled System Management Software.
VCA log	A listing of all the software maintenance tasks completed by the VCA and reports resulting from those tasks.
version control	Referred to as the VCRM installed on a Windows system for Windows and Linux ProLiant systems, and Software Distributor on HP-UX operating systems. Provides an overview of the software status for all managed ProLiant or Integrity systems and can update system software and firmware on those systems programmatically using predetermined criteria. Version control identifies systems that are running out-of-date system software, indicates if an upgrade is available, and provides reasons for upgrading. For HP-UX systems, Software Distributor can be launched from an HP SIM CMS against one or more installed HP-UX systems.

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